

TEST REPORT

Report No.: S23041007504001

Product: Smart Phone

Model No.: WP28, WP28 S, WP28 Pro, WP28 Ultra

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

Address: 202, Building A2, Silicon Valley Power Intelligent Terminal

Industrial Park, No. 20, Dafu Industrial Zone, Kukeng

Community, Guanlan Street, Longhua District, Shenzhen, China.

Issued by: Shenzhen NTEK Testing Technology Co., Ltd.

Lab Location: 1/F, Building E, Fenda Science Park, Sanwei Community,

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TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number:	S23041007504001	at 4st
Tested by (name + signature)	Regina Deng	Regina Deng
Approved by (name + signature):	Henson Dong	Henson Drive
Date of issue:	2023-05-11	A ST
Testing Laboratory	Shenzhen NTEK Testing Techno	logy Co., Ltd.
Address	1/F, Building E, Fenda Science Street, Bao'an District, Shenzher	
Applicant's name:	SHENZHEN YUNJI INTELLIGEN	IT TECHNOLOGY CO.,LTD
Address::		Zone, Kukeng Community, Guanlan
Test specification:	* 3	
Standard:	☐ IEC 62368-1:2014 (Second Ed ☐ EN 62368-1:2014+A11:2017	dition)
Test procedure:	CE Scheme	
Non-standard test method:		
Test Report Form No:	IEC62368_1D	
Test Report Form(s) Originator:	UL(US)	
Master TRF:	Dated 2021-02-04	
Copyright © 2014 Worldwide Syste Equipment and Components (IECE		
Test Item description	Smart Phone	70
Trade Mark	OUKITEL	
Manufacturer	SHENZHEN YUNJI INTELLIGEN	IT TECHNOLOGY CO., LTD
Manufacturer address	•	Power Intelligent Terminal Industrial Zone, Kukeng Community, Guanlan en, China.
Model/Type reference	WP28, WP28 S, WP28 Pro, WP2	28 Ultra
Ratings	Input:9VDC, 2A (Supplied by fas	t charge adapter)
	or 3.87Vdc,10600mAh (recharge	eable lithium battery)



TEST ITEM PARTICULARS:	
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☑ Children likely to be present
Supply Connection:	☐ AC Mains ☐ DC Mains ☐ External Circuit - not Mains connected - ☐ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	☐ +10%/-10% ☐ +20%/-15% ☐ +2 <u>5</u> %/- <u>15</u> % ☑ None
Supply Connection – Type:	□ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ☒ other: Fast charger
Considered current rating of protective device as part of building or equipment installation	N/A (Not directly connected to mains) Installation location:
Equipment mobility	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: (Not directly connected to mains)
Class of equipment	☐ Class I ☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient:	40 °C
IP protection class:	
Power Systems:	TN TT TTV _{L-L}
Altitude during operation (m)	☑ 2000 m or less ☐ <u>5000</u> m
Altitude of test laboratory (m)	☐ 2000 m or less <u>500</u> m
Mass of equipment (kg)	⊠ approx. 0.372 kg



POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement	F (Fail)
TESTING:	4
Date of receipt of test item	2023-04-11
Date (s) of performance of tests	2023-04-25 to 2023-05-09

GENERAL PRODUCT INFORMATION:

Product Description –

- -The equipment is smart Phone. Powered by internal rechargeable li-ion battery and charge with adaptor from type C interface.
- -The adaptor was approved separately. Adaptor output is fast charge classified as PS2.
- -Flashlight LED complied with IEC 62471 with exempt group(RS1).
- -The maximum operating temperature is 40°C.
- -Otherwise specified, description are indicates the phone except adapter.

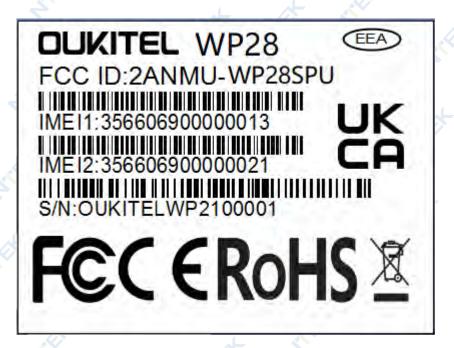
Additional application considerations – (Considerations used to test a component or sub-assembly) –

No sub-assembly

Model difference:

- These models are identical except model number.

Copy of marking plate:



Remark:

- -The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
- -The CE marking and WEEE symbol (if any) should be at least 5.0 mm and 7.0 mm respectively in height.



ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example: +5 V dc input ES₁

Source of electrical energy	Corresponding classification (ES)	
Adaptor output	ES1	
Internal circuits	ES1_	
Battery	ES1	

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts):

Source of power or PIS	Corresponding classification (PS)	
Adaptor output(fast charge)	PS2(Resistive PIS)	
Internal circuits	PS2(Resistive PIS)	
Battery pack/cell output	PS2(Resistive PIS)	

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical	大	
Battery	Complied with annex M		

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table

Example: Wall mount unit MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)		
Sharp edges and corners of accessible parts	MS1		
Product mass	MS1		

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner - thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Accessible parts	TS1

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product

Type of radiation	Corresponding classification (RS)



LED flashlight	RS1
Acoustic	RS2

ENERGY SOURCE DIAGRAM						
Indicate which energy sources are included in the energy source diagram. Insert diagram below						
⊠ ES ⊠ PS ⊠ MS ⊠ TS ⊠ RS						
Remark: N/A						

OVERVIEW OF EMPLOYE	ED SAFEGUARDS		<u> </u>	<u> </u>
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source Safeguards			
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person, Skilled person	ES1: Internal circuits ES1: Type-C port	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
Internal combustible material/ internal plastic enclosure	PS2: All the circuit PS2: Battery pack/cell	1, No ignition occurred. 2, No parts exceeding 90% of its spontaneous ignition temperature.	1, PCB is complied with V-0 material. 2, All other components: at least V-2 except for mounted on V-0 material or small parts of combustible material.	V-0 enclosure used
7.1	Injury caused by hazardou	us substances		
Body Part (e.g., skilled)	Energy Source (hazardous material)		Safeguards	1
	,	Basic	Supplementary	Reinforced
Battery pack	Complied with annex M	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3: High Pressure		Safeguards	1
Lamp)		Basic	Supplementary	Reinforced (Enclosure)
Ordinary person, Skilled person	MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A



Ordinary person, Skilled person	MS1: Product mass	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary person,	TS1: Accessible parts	N/A	N/A	N/A
Skilled person		* *		
10.1	Radiation			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
Ordinary person,	RS1: LED	N/A	N/A	N/A
Skilled person		4	*	.1
Ordinary person,	RS2: Acoustic	Warning:	N/A	N/A
Skilled person	4	"Listening at high volume for long	7	
* 4	ملہ	periods may		
		damage your hearing" will		* 4
		appear when the		
		sound exceeds RS1	3, -	
		1,01	•	

Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault.



	7(6, 4, 1	EC 62368-1	7	<i>*</i>
Clause	Requirement + Test	4, 4	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies		P
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction	. 4	P
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness		Р
4.4.4.2	Steady force tests:	(See Annex T.4)	Р
4.4.4.3	Drop tests	(See Annex T.7)	Р
4.4.4.4	Impact tests:	L 39 39	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	N/A
4.4.4.6	Glass Impact tests:	Surface area not exceeding 0.1m ²	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard	Considered, but no such barrier or enclosure provided	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective	Р
4.5	Explosion	4	Р
4.6	Fixing of conductors		P
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to:		Р
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard:	* 10	N/A
4.7.3	Torque (Nm)	+ 3	N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries used	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery:	4	_
4.8.4	Battery Compartment Mechanical Tests:		N/A
4.8.5	Battery Accessibility	4 3	N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	(See Annex P)	Р



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Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	P
5.2.2	ES1, ES2 and ES3 limits		Р
5.2.2.2	Steady-state voltage and current	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:		N/A
5.2.2.4	Single pulse limits:	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses:	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals:	No means for connection to telephone network and no ringing signal generated	N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	All internal circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	₹ .	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	at at see	N/A
5.3.2.2	Contact requirements	4 4	N/A
	a) Test with test probe from Annex V:	10	N/A
>	b) Electric strength test potential (V):	7 2	N/A
	c) Air gap (mm):	* *	N/A
5.3.2.4	Terminals for connecting stripped wire	Z. 4	N/A
5.4	Insulation materials and requirements	4 5	Р
5.4.1.2	Properties of insulating material		Р
5.4.1.3	Humidity conditioning:	t i	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	At 3,00	P
5.4.1.5	Pollution degree:	+ 2	_
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	<i>d</i> .	N/A
5.4.1.5.3	Thermal cycling	4 2	N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses	4 46	N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	\$ 0	N/A
5.4.1.10.2	Vicat softening temperature:	* * * *	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10.3	Ball pressure:		N/A
5.4.2	Clearances	<i>₹</i> 0 ₹	N/A
5.4.2.2	Determining clearance using peak working voltage	*	N/A
5.4.2.3	Determining clearance using required withstand voltage	of the first	N/A
	a) a.c. mains transient voltage	. 6	_
	b) d.c. mains transient voltage:	1 % -	_
	c) external circuit transient voltage:		_
	d) transient voltage determined by measurement:		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	70 4 4	N/A
5.4.3	Creepage distances:	4	N/A
5.4.3.1	General	~	N/A
5.4.3.3	Material Group:	46 74 6	_
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:	20	N/A
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	10 E 1	N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	70 -	N/A
5.4.4.6.1	General requirements	7	N/A
5.4.4.6.2	Separable thin sheet material	· ·	N/A
	Number of layers (pcs)	* 3	N/A
5.4.4.6.3	Non-separable thin sheet material	4 3,	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	<i>.</i>	N/A
5.4.4.6.5	Mandrel test	* 2	N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:		N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	2	N/A
	Insulation resistance (MΩ):		_
5.4.6	Insulation of internal wire as part of supplementary safeguard:	3,00	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.4.7	Tests for semiconductor components and for cemented joints	A 3100 8	N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%):	L (4)	
	Temperature (°C):	V- 10 4	_
	Duration (h)		_
5.4.9	Electric strength test:		N/A
5.4.9.1	Test procedure for a solid insulation type test		N/A
5.4.9.2	Test procedure for routine tests	7 7	N/A
5.4.10	Protection against transient voltages between external circuit	No transient voltage from external circuit	N/A
5.4.10.1	Parts and circuits separated from external circuits	76 6 4.	N/A
5.4.10.2	Test methods	7	N/A
5.4.10.2.1	General	, ,	N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test	3, 4,	N/A
5.4.11	Insulation between external circuits and earthed circuitry:	No such external circuit	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	at at	N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V):		
	Nominal voltage U _{peak} (V):	3	
	Max increase due to variation U _{sp} :	F	
	Max increase due to ageing ΔU _{sa} :	.L .S	
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$::		_
5.5	Components as safeguards		4
5.5.1	General		N/A
5.5.2	Capacitors and RC units	\$ \frac{2}{2}	N/A
5.5.2.1	General requirement	3	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	d+ 3	N/A
5.5.3	Transformers	4 3	N/A
5.5.4	Optocouplers	3	N/A
5.5.5	Relays	4	N/A
5.5.6	Resistors	A A A	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth	L CONT	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable	d 200 ×	N/A
5.6	Protective conductor	,	N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements	- 2 - 4	N/A
5.6.2.2	Colour of insulation	.(_	N/A
5.6.3	Requirement for protective earthing conductors	(20 2	N/A
	Protective earthing conductor size (mm²)		_
5.6.4	Requirement for protective bonding conductors	4	N/A
5.6.4.1	Protective bonding conductors	*	N/A
	Protective bonding conductor size (mm²)	* *	_
5.6.4.2	Protective current rating (A):	3, 5,	
5.6.4.3	Current limiting and overcurrent protective devices	4	N/A
5.6.5	Terminals for protective conductors	4 25	N/A
5.6.5.1	Requirement	A 200	N/A
- 4	Conductor size (mm²), nominal thread diameter (mm).	at Sign	N/A
5.6.5.2	Corrosion	3	N/A
5.6.6	Resistance of the protective system	F .L	N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method Resistance (Ω)		N/A
5.6.7	Reliable earthing	? ?	N/A
5.7	Prospective touch voltage, touch current and protective	ctive conductor current	N/A
5.7.2	Measuring devices and networks	* 3,	N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	* 3.07 5	N/A
*	System of interconnected equipment (separate connections/single connection)	\$ 0	_
	Multiple connections to mains (one connection at a time/simultaneous connections)	* * *	_



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Clause	Requirement + Test	Result - Remark	Verdict
	AC		
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current		N/A
	Supply Voltage (V)	*	_
	Measured current (mA)		
./	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	.L & .	N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	, L	N/A
5.7.7	Summation of touch currents from external circuits	No such external circuits	N/A
, ct	a) Equipment with earthed external circuits Measured current (mA):	4	N/A
4	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	A ST SOT	N/A

6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications	L Ø	P
6.2.2.1	General	A A	Р
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	P
6.2.2.4	PS1:	F 4	Р
6.2.2.5	PS2	(See appended table 6.2.2)	Р
6.2.2.6	PS3:	T (4)	N/A
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS	.0	N/A
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	P
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions	, C	Р
6.4.1	Safeguard Method	Method of control fire spread used	P



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Clause	Requirement + Test	Result - Remark	Verdict		
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	A 310 8	N/A		
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A		
6.4.3.1	General	4 2 2	N/A		
6.4.3.2	Supplementary Safeguards	(V Z)	N/A		
	Special conditions if conductors on printed boards are opened or peeled	* *	N/A		
6.4.3.3	Single Fault Conditions:	L 150 E	N/A		
	Special conditions for temperature limited by fuse		N/A		
6.4.4	Control of fire spread in PS1 circuits		N/A		
6.4.5	Control of fire spread in PS2 circuits		Р		
6.4.5.2	Supplementary safeguards:	PCB: V-0; Fire enclosure used: V-0	Р		
6.4.6	Control of fire spread in PS3 circuit	No PS3 circuit.	N/A		
5.4.7	Separation of combustible materials from a PIS		Р		
6.4.7.1	General:	Fire enclosure used: V-0	Р		
6.4.7.2	Separation by distance	140	N/A		
6.4.7.3	Separation by a fire barrier	*	Р		
6.4.8	Fire enclosures and fire barriers	Refer from M.4.3	P /		
6.4.8.1	Fire enclosure and fire barrier material properties	Fire enclosure provided	Р		
6.4.8.2.1	Requirements for a fire barrier		Р		
6.4.8.2.2	Requirements for a fire enclosure	V-0 used.	Р		
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	F	P		
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings on the fire enclosure.	N/A		
6.4.8.3.2	Fire barrier dimensions	* 5	N/A		
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No opening	N/A		
	Needle Flame test	\(\sigma_{\pi} \forall \)	N/A		
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):	4	N/A		
4	Flammability tests for the bottom of a fire enclosure	4 3/10t 3	N/A		
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)	4100	N/A		
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	Fire enclosure used: V-0	Р		



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Clause	Requirement + Test		Result - Remark	Verdict
		<u>'</u>		
6.5	Internal and external wiring	٦, ـ		Р
6.5.1	Requirements		4	P
6.5.2	Cross-sectional area (mm²)	(See ap	pended table 4.1.2)	_
6.5.3	Requirements for interconnection to building wiring	: 4		N/A
6.6	Safeguards against fire due to connection to additional equipment		-	P
.4	External port limited to PS2 or complies with Clause Q.1	<i>*</i>	Sign Fig.	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES			
7.2	Reduction of exposure to hazardous substances	No such hazardous substances	N/A	
7.3	Ozone exposure	No ozone production	N/A	
7.4	Use of personal safeguards (PPE)	, t	N/A	
	Personal safeguards and instructions:	A A 3	_	
7.5	Use of instructional safeguards and instructions	37 2	N/A	
10	Instructional safeguard (ISO 7010):	AT.	_	
7.6	Batteries:	(See appended tables Annex M)	Р	

8	MECHANICALLY-CAUSED INJURY		P
8.1	General	* **	Р
8.2	Mechanical energy source classifications	300	Р
8.3	Safeguards against mechanical energy sources	L ,	Р
8.4	Safeguards against parts with sharp edges and corners	A STOR	P
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts	,	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	at sign .	N/A
8.5.2	Instructional Safeguard:		_
8.5.4	Special categories of equipment comprising moving parts	* 3	N/A
8.5.4.1	Large data storage equipment	* 3	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	4	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	4 4 5	N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
4	Instructional Safeguard		_
8.5.4.2.3	Disconnection from the supply	(A)	N/A
8.5.4.2.4	Probe type and force (N)	*	N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification	W 3	N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability	Mass < 7kg	N/A
8.6.1	Product classification	MS1	N/A
	Instructional Safeguard		_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
太	Applied Force	4	_
8.6.2.3	Downward Force Test	4	N/A
8.6.3	Relocation stability test	* *	N/A
.L	Unit configuration during 10° tilt:	31 31 7	_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):	4	N/A
	Position of feet or movable parts:	4 0	_
8.7	Equipment mounted to wall or ceiling	√° →	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	THE AND	N/A
8.7.2	Direction and applied force	7	N/A
3.8	Handles strength		N/A
8.8.1	Classification	A 25	N/A
8.8.2	Applied Force	+ 3	N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force		_
8.10	Carts, stands and similar carriers	4,	N/A
8.10.1	General	* 3	N/A
8.10.2	Marking and instructions	A	N/A
	Instructional Safeguard:	700	_
8.10.3	Cart, stand or carrier loading test and compliance	Z Q	N/A
	Applied force	* * *	_
8.10.4	Cart, stand or carrier impact test		N/A



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Verdict	Result - Remark	7	Requirement + Test	Clause
			A .Ø	
N/A		\	Mechanical stability	8.10.5
_	7		Applied horizontal force (N)	
N/A			Thermoplastic temperature stability (°C)	8.10.6
N/A		٨	Mounting means for rack mounted equipment	8.11
N/A	3		General	8.11.1
N/A			Product Classification	8.11.2
N/A			Mechanical strength test, variable N	8.11.3
N/A	7, 4,	F	Mechanical strength test 250N, including end stops	8.11.4
N/A			Telescoping or rod antennas	8.12
_	4		Button/Ball diameter (mm)	
				8.12

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	TS1: accessible parts	Р
9.3	Safeguard against thermal energy sources		N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard		N/A

10	RADIATION		P
10.2	Radiation energy source classification	1 A	Р
10.2.1	General classification	100	Р
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:		_
	Normal, abnormal, single-fault	LED flashlight comply with RS1	Р
	Instructional safeguard	4 2	_
	Tool	By tool	_
10.4	Protection against visible, infrared, and UV radiation	LED system unit used.	Р
10.4.1	General	200	P
10.4.1.a)	RS3 for Ordinary and instructed persons:		N/A
10.4.1.b)	RS3 accessible to a skilled person:		N/A
	Personal safeguard (PPE) instructional safeguard:	3:07	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	LED system unit comply with RS1	Р
10.4.1.d)	Normal, abnormal, single-fault conditions:	Exempt group	P



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Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.e)	Enclosure material employed as safeguard is opaque		N/A
10.4.1.f)	UV attenuation		N/A
10.4.1.g)	Materials resistant to degradation UV	L .49	N/A
10.4.1.h)	Enclosure containment of optical radiation:	A 80 6	N/A
10.4.1.i)	Exempt Group under normal operating conditions	Exempt group	P
10.4.2	Instructional safeguard		N/A
10.5	Protection against x-radiation	F 27 P	N/A
10.5.1	X- radiation energy source that exists equipment:	1	N/A
	Normal, abnormal, single fault conditions	(19 4	N/A
	Equipment safeguards		N/A
太	Instructional safeguard for skilled person:	4	N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation		_
	Abnormal and single-fault condition:	10 10 A	N/A
	Maximum radiation (pA/kg):	7 %	N/A
10.6	Protection against acoustic energy sources		Р
10.6.1	General		Р
10.6.2	Classification	RS2	P
7 4	Acoustic output, dB(A):		N/A
	Output voltage, unweighted r.m.s:	Maximum volume:	Р
		Right: 138.2mV; Left: 138.6mV warning: Right: 25.3mV; Left: 25.5mV	
10.6.4	Protection of persons	4 3	N/A
A. E.	Instructional safeguards	1. Symbol ; 2. "high sound pressure" or equivalent wording; 3. "hearing	P
NOT NOT	with with with	damage risk" or equivalent wording; 4. "do not listen at high volume levels for long periods" or equivalent wording.	¢+ _3
	Equipment safeguard prevent ordinary person to RS2	Automatically return to RS1 level when the power is switched off.	_
	Means to actively inform user of increase sound pressure:	Warning: hearing damage risk or equivalent wording	_
	Equipment safeguard prevent ordinary person to RS2:	After 20h the acoustic output not exceeding RS1	_



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Clause	Requirement + Test	Result - Remark	Verdict
	A		
10.6.5	Requirements for listening devices (headphones, earphones, etc.)	No such device	N/A
10.6.5.1	Corded passive listening devices with analog input	4	N/A
	Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output:	at sight 4	_
10.6.5.2	Corded listening devices with digital input		N/A
	Maximum dB(A):	4 .0 1	_
10.6.5.3	Cordless listening device	F 4, 5,	N/A
	Maximum dB(A):		_

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		P
B.2	Normal Operating Conditions		Р
B.2.1	General requirements:	(See summary of testing & appended test tables)	Р
.0	Audio Amplifiers and equipment with audio amplifiers	(See Annex E)	Р
B.2.3	Supply voltage and tolerances	(See appended table B.2.5)	Р
B.2.5	Input test:	(See appended table B.2.5) Rating not marked	N/A
B.3	Simulated abnormal operating conditions		P
B.3.1	General requirements:	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	4	N/A
B.3.3	D.C. mains polarity test	F .L	N/A
B.3.4	Setting of voltage selector:	No such voltage selector.	N/A
B.3.5	Maximum load at output terminals	No such terminals	N/A
B.3.6	Reverse battery polarity	Battery can't reverse polarity	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	Short circuit of speaker considered.	Р
B.3.8	Safeguards functional during and after abnormal operating conditions		P
B.4	Simulated single fault conditions	.L &	Р
B.4.2	Temperature controlling device open or short-circuited:	No such controlling device	N/A
B.4.3	Motor tests	3	Р
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	Motor blocked	P
B.4.4	Short circuit of functional insulation	3 3	Р



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	AØ	, L	
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	A ST FIRM	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	F 1,6 5	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	*	P
B.4.9	Battery charging under single fault conditions:	(See appended table M)	P

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV radiation within the EUT.	N/A
C.1.2	Requirements	317	N/A
C.1.3	Test method	.Ø	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	,L	N/A
C.2.2	Mounting of test samples	10 Z X	N/A
C.2.3	Carbon-arc light-exposure apparatus	A- A-	N/A
C.2.4	Xenon-arc light exposure apparatus	70	N/A

D	TEST GENERATORS		N/A
D.1	Impulse test generators	4 5	N/A
D.2	Antenna interface test generator	4 2	N/A
D.3	Electronic pulse generator	.1	N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	IING AUDIO AMPLIFIERS	Р
E.1	Audio amplifier normal operating conditions	(See appended table B.2.5)	N/A
*	Audio signal voltage (V)	4	_
	Rated load impedance (Ω)	* \$	
E.2	Audio amplifier abnormal operating conditions	(See Table B.3, B.4)	N/A

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	* * *	P
	Instructions – Language	Manual in English	_



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Clause	Requirement + Test	Result - Remark	Verdict
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Ø 4	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		Р
F.3	Equipment markings	4 4 4	Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings	, ,	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	_
F.3.2.2	Model identification	See copy of marking plate	_
F.3.3	Equipment rating markings	*	N/A
F.3.3.1	Equipment with direct connection to mains	* 3	N/A
F.3.3.2	Equipment without direct connection to mains	Equipment without direct connection to mains, no need to marking any ratings	N/A
F.3.3.3	Nature of supply voltage	~ * *	_
F.3.3.4	Rated voltage	16 76 5	_
F.3.3.4	Rated frequency:		
F.3.3.6	Rated current or rated power:	300	_
F.3.3.7	Equipment with multiple supply connections	No multiple supply connection.	N/A
F.3.4	Voltage setting device	No such device.	N/A
F.3.5	Terminals and operating devices	· .L .K	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings:	No mains appliance outlet.	N/A
F.3.5.2	Switch position identification marking:	Not such switch.	N/A
F.3.5.3	Replacement fuse identification and rating markings	At Hill	N/A
F.3.5.4	Replacement battery identification marking:	Provided the user manual.	Р
F.3.5.5	Terminal marking location	<u>۸</u> ــ	N/A
F.3.6	Equipment markings related to equipment classification	10t 43th	N/A
F.3.6.1	Class I Equipment	4	_N/A
F.3.6.1.1	Protective earthing conductor terminal	L A	N/A
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)	7	N/A
F.3.6.2.1	Class II equipment with or without functional earth	+ + 3	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
=.3.6.2.2	Class II equipment with functional earth terminal marking	A 310 8	N/A
3.7	Equipment IP rating marking	IPX0, no marking is needed	_
- .3.8	External power supply output marking	L 29	N/A
=.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P
=.4	Instructions	7 7	P
	a) Equipment for use in locations where children not likely to be present - marking	44	N/A
	b) Instructions given for installation or initial use	4 20	Р
F <	c) Equipment intended to be fastened in place	₹ *	N/A
	d) Equipment intended for use only in restricted access area	Not used in restricted access area.	N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	+ +	N/A
	f) Protective earthing employed as safeguard	<i>A</i> 2	N/A
	g) Protective earthing conductor current exceeding ES2 limits	7 4	N/A
4	h) Symbols used on equipment	Ø.	Р
-	i) Permanently connected equipment not provided with all-pole mains switch	160 A.	N/A
N. C.	j) Replaceable components or modules providing safeguard function	* 3	N/A
=.5	Instructional safeguards	*	Р
.d+	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	4	Р



	740 4	IEC 62368-1		*
Clause	Requirement + Test	4	Result - Remark	Verdict

			5
G	COMPONENTS		Р
G.1	Switches	<i>₹</i> 0 ₹	N/A
G.1.1	General requirements	*	N/A
G.1.2	Ratings, endurance, spacing, maximum load	4 3	N/A
G.2	Relays		N/A
G.2.1	General requirements		N/A
G.2.2	Overload test	* *	N/A
G.2.3	Relay controlling connectors supply power	F 3, 5	N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	4	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	A A A	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	4° 4°	N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	- C	N/A
7 4	Aging hours (H):		_
	Single Fault Condition:		_
_	Test Voltage (V) and Insulation Resistance (Ω). :	7	_
G.3.3	PTC Thermistors	· *	N/A
G.3.4	Overcurrent protection devices	A- <	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	, t	N/A
G.3.5.2	Single faults conditions:	4 3	N/A
G.4	Connectors		N/A
G.4.1	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	10 A	N/A
G.5	Wound Components	- A	N/A
G.5.1	Wire insulation in wound components:	* * * 5	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	A 310 4	N/A	
G.5.1.2 b)	Construction subject to routine testing	,L	N/A	
G.5.2	Endurance test on wound components		N/A	
G.5.2.1	General test requirements	A 10 5	N/A	
G.5.2.2	Heat run test	. 4	N/A	
	Time (s):	(_	
	Temperature (°C)		_	
G.5.2.3	Wound Components supplied by mains	7 7	N/A	
G.5.3	Transformers	* .	N/A	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	THE FIRE FIRE	N/A	
4	Position	7	_	
3	Method of protection:	*	_	
G.5.3.2	Insulation		N/A	
<u>ــــــــــــــــــــــــــــــــــــ</u>	Protection from displacement of windings:	2, 5,	_	
G.5.3.3	Overload test:	<u> A</u>	N/A	
G.5.3.3.1	Test conditions	4	N/A	
G.5.3.3.2	Winding Temperatures testing in the unit	4 30	N/A	
G.5.3.3.3	Winding Temperatures - Alternative test method	7° 7	N/A	
G.5.4	Motors	* 3	Р	
G.5.4.1	General requirements	Vibration motor used	Р	
.(Position:	L ,	_	
G.5.4.2	Test conditions	4	N/A	
G.5.4.3	Running overload test		N/A	
G.5.4.4	Locked-rotor overload test	} 	N/A	
	Test duration (days):	*	_	
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A	
G.5.4.5.2	Tested in the unit	4,	_N/A	
140	Electric strength test (V)	<i>♣</i> <	_	
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A	
*	Electric strength test (V)	4,	_	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	A A 30	P	



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Clause	Requirement + Test	Result - Remark	Verdict	
G.5.4.6.2	Tested in the unit		Р	
	Maximum Temperature:	(See appended table B.4)	N/A	
	Electric strength test (V)		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	of the second	N/A	
	Electric strength test (V)		N/A	
G.5.4.7	Motors with capacitors	(* .	N/A	
G.5.4.8	Three-phase motors		N/A	
G.5.4.9	Series motors		N/A	
3	Operating voltage	*		
G.6	Wire Insulation	A 30 10	P	
G.6.1	General	ES1 wire, no requirements	Р	
G.6.2	Solvent-based enamel wiring insulation		N/A	
G.7	Mains supply cords	, L	N/A	
G.7.1	General requirements	Not directly connected to mains	N/A	
*	Type	4. 4	_	
	Rated current (A):	1110		
	Cross-sectional area (mm²), (AWG):	*	_	
G.7.2	Compliance and test method		N/A	
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	× 3,07	N/A	
G.7.3.2	Cord strain relief		N/A	
G.7.3.2.1	Requirements		N/A	
4	Strain relief test force (N)			
G.7.3.2.2	Strain relief mechanism failure		N/A	
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	7 4		
G.7.3.2.4	Strain relief comprised of polymeric material	*	N/A	
G.7.4	Cord Entry	AL (1)	N/A	
G.7.5	Non-detachable cord bend protection	1100	N/A	
G.7.5.1	Requirements		N/A	
G.7.5.2	Mass (g)	, dt - 2°	_	
·	Diameter (m)		_	
.د	Temperature (°C):		_	
G.7.6	Supply wiring space		N/A	
G.7.6.2	Stranded wire		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements	No varistor used.	N/A
G.8.2	Safeguard against shock	· *	N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage	* *	N/A
G.9	Integrated Circuit (IC) Current Limiters	~ K K	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No such IC used.	N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA		_
G.9.1 d)	IC limiter output current (max. 5A)	2, , , ,	_
G.9.1 e)	Manufacturers' defined drift		_
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3	7 6	N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements	_	N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test	d 2	N/A
G.11	Capacitor and RC units	A 30	N/A
G.11.1	General requirements	No such components used	N/A
G.11.2	Conditioning of capacitors and RC units	100	N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	4	N/A
4	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)		N/A
۸ـ	Type test voltage Vini	4	_
	Routine test voltage, Vini,b		_
G.13	Printed boards		P



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Clause	Requirement + Test	Result - Remark	Verdict
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards	<i>₹</i> 0 ₹	P
G.13.3	Coated printed boards	*	N/A
G.13.4	Insulation between conductors on the same inner surface	of the first	N/A
	Compliance with cemented joint requirements (Specify construction):		_
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation		N/A
4	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection	2	N/A
G.13.6.2a)	Thermal conditioning	. (N/A
G.13.6.2b)	Electric strength test	~ * *	N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals	7	N/A
G.14.1	Requirements	3,1	N/A
G.15	Liquid filled components	, ,	N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test	F *	N/A
G.15.3.3	Tubing and fittings compatibility test	* *	N/A
G.15.3.4	Vibration test	+ 4	N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test	.0	N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	4	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	at 4	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage		N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A
C2)	Test voltage:	<i>\$</i> 0 <i>\$</i> 0	_



	IEC 62368-1		4	
Clause	Requirement + Test	6	Result - Remark	Verdict
		1	<u> </u>	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	CH	4.0	N/A
D2)	Capacitance		4 .4	.0 —
D3)	Resistance	*	<u> </u>	_

Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	3	N/A
H.1	General		N/A
H.2	Method A	- 4, 6	N/A
H.3	Method B	, <u></u>	N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)	70 5 5	_
H.3.1.2	Voltage (V)	7	_
H.3.1.3	Cadence; time (s) and voltage (V)		_
H.3.1.4	Single fault current (mA):		_
H.3.2	Tripping device and monitoring voltage	4 4	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	25,00	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)	10 E 1	_

J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	N/A
	General requirements		N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance:		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:		N/A
K.7	Interlock circuit isolation		N/A



	IEC 62368-1	70°	人
Clause	Requirement + Test	Result - Remark	Verdict
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test:		N/A

L	DISCONNECT DEVICES	N/A
L.1	General requirements	N/A
L.2	Permanently connected equipment	N/A
L.3	Parts that remain energized	N/A
L.4	Single phase equipment	N/A
L.5	Three-phase equipment	N/A
L.6	Switches as disconnect devices	N/A
L.7	Plugs as disconnect devices	N/A
L.8	Multiple power sources	N/A

M	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements	Lithium battery complied IEC 62133-2	Р
M.2.2	Compliance and test method (identify method):	Test report inspected	Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		Р
M.3.3	Compliance:	After above test have not created a hazard in the meaning of this standard	Р
M.4	Additional safeguards for equipment containing secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р



	IEC 62368-1	XV T	
Clause	Requirement + Test	Result - Remark	Verdict
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:	(See appended table M.4)	_
M.4.2.2 b)	Single faults in charging circuitry:	(See appended table M.4)	
M.4.3	Fire Enclosure	Fire enclosure provided	Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying	See appended table B.4	Р
M.5.1	Requirement		Р
M.5.2	Compliance and Test Method (Test of P.2.3)		Р
M.6	Prevention of short circuits and protection from other effects of electric current	See appended table B.4	Р
M.6.1	Short circuits		Р
M.6.1.1	General requirements		Р
M.6.1.2	Test method to simulate an internal fault		Р
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA)		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	# .Ø		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):	Provided the instructions include battery charging, storage and transportation, and disposal and recycling.	Р

N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used:		_

0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		N/A
	Figures O.1 to O.20 of this Annex applied:	Considered	

Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1	General requirements	No opening	Р
P.2.2	Safeguards against entry of foreign object	No safeguards requirement.	N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C)		
	Tr (°C):		_
	Ta (°C)		_



	IEC 62368-1		大
Clause	Requirement + Test	Result - Remark	Verdict
	A- A0		•
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing		N/A

Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A	
Q.1	Limited power sources		N/A	
Q.1.1 a)	Inherently limited output		N/A	
Q.1.1 b)	Impedance limited output		N/A	
	- Regulating network limited output under normal operating and simulated single fault condition	See appended table Annex Q.1	N/A	
Q.1.1 c)	Overcurrent protective device limited output		N/A	
Q.1.1 d)	IC current limiter complying with G.9		N/A	
Q.1.2	Compliance and test method		N/A	_
Q.2	Test for external circuits – paired conductor cable		N/A	
	Maximum output current (A)		_	
	Current limiting method		_	

R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General requirements	N/A
R.2	Determination of the overcurrent protective device and circuit	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)):	N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
	Samples, material:	_
	Wall thickness (mm)	_
	Conditioning (°C)	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C)		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material		_
	Wall thickness (mm)		_
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		
	Wall thickness (mm)		
	Conditioning (test condition), (°C)		
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A

Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N		Р
T.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N	(See appended table T.4)	Р
T.5	Steady force test, 250 N		N/A
T.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test	(See appended table T.7)	Р
T.8	Stress relief test	(See appended table T.8)	Р
T.9	Impact Test (glass)	Surface area not exceeding 0.1m ²	N/A



	IEC 62368-1	10 ×	<u>*</u>
Clause	Requirement + Test	Result - Remark	Verdict
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		_
	Height (m):		_
T.10	Glass fragmentation test:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		_

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION			
U.1	General requirements		N/A	
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A	
U.3	Protective Screen		N/A	

٧	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment	Class III	N/A
V.2	Accessible part criterion		N/A



	_	*	EN 62368-1	7		4
Clause	Requirement + Test			Result - Remark	4	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment - Part 1: Safety requirements)

Differences according to...... EN 62368-1:2014+A11:2017

Attachment Form No..... EU_GD_IEC62368_1D_II

Attachment Originator Nemko AS

Master Attachment Dated 2021-02-04

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	CENELEC C	OMMON MOD	DIFICATION	NS (EN)			Р
*		clauses, notes :2014 are prefix		ures and annexes	s which are a	dditional to those in	Р
CONTENTS	Add the follo	wing annexes:	4	3			Р
	Annex ZA (no Annex ZB (no Annex ZC (in Annex ZD (in	ormative) iformative)	with the Speci A-dev	ative references neir correspondin al national condit riations nd CENELEC co	ng European p tions	publications	Z. C.
	Delete all the to the following		es in the refe	erence document	t (IEC 62368-	1:2014) according	P
	0.2.1	Note	1	Note 3	4.1.15	Note	4
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	*
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	K 4
		Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	



	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4		4 20 5	
107	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.		P
I.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		N/A
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;		4
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;		· Č
	c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.		4
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		A. A.
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	Aligh Aligh	N/A
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.		N/A



	EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:		N/A	
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.			
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a			
	radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.		e i	
	Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		- 2	
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.			
1 4	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	ALL SALVES	.0	
10.6.1	Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		N/A	
10.Z1	Add the following new subclause after 10.6.5.		N/A	
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz			
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic		A COL	
	fields (0 Hz to 300 GHz).			
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body-mounted devices, attention is drawn to EN 50360 and EN 50566		et é	
G.7.1	Add the following note:	4	N/A	
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		, Et	



		Report No. 52304 1007 50400 1	
大	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
			_
Bibliography	Add the following standards:	4	P
	Add the following notes for the standards indicated:	~	
	IEC 60130-9 NOTE Harmonized as EN 60130-9.		7
	IEC 60269-2 NOTE Harmonized as HD 60269-2.		
	IEC 60309-1 NOTE Harmonized as EN 60309-1.		. 1
	IEC 60364 NOTE some parts harmonized in HI	$_{A}$	
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4	4	
	IEC 60664-5 NOTE Harmonized as EN 60664-5.		,
	IEC 61032:1997 NOTE Harmonized as EN 61032:19	98 (not modified).	
	IEC 61508-1 NOTE Harmonized as EN 61508-1.		
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-	1.	
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4	4. 1	
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-	6.	
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	7	
	IEC 61643-21 NOTE Harmonized as EN 61643-21	با	- 2
	IEC 61643-311 NOTE Harmonized as EN 61643-31	1	
	IEC 61643-321 NOTE Harmonized as EN 61643-32	1.47	
	IEC 61643-331 NOTE Harmonized as EN 61643-33		N.
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN		Р
4.1.15	Denmark, Finland, Norway and Sweden	T 6	N/A
	To the end of the subclause the following is added:	F .	
	Class I pluggable equipment type A intended for	, 1 , 1	10
	connection to other equipment or a network shall, if safety relies on connection to reliable earthing or	AL KAN	
	if surge suppressors are connected between the		
	network terminals and accessible parts, have a	4	*
	marking stating that the equipment shall be		
	connected to an earthed mains socket-outlet.		4
	The marking text in the applicable countries shall be as follows:		
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til	4	本
	stikproppens jord."		
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	at which s	
	In Norway : "Apparatet må tilkoples jordet stikkontakt"	41	*
	In Sweden : "Apparaten skall anslutas till jordat uttag"		



*	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom To the end of the subclause the following is added:		N/A
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	et wet wet	4
5.2.2.2	Denmark After the 2nd paragraph add the following:	4 4 5	N/A
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		
5.4.11.1 and	Finland and Sweden	. 40	N/A
Annex G	To the end of the subclause the following is added:		
	For separation of the telecommunication network from earth the following is applicable:	4.	
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	ich ich zuch	4
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	F. F	4
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.		
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and	STATE STATES	A THE
	in addition • passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and	+ 41/11+ 41	ret .
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.		۔ حام
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	ATT A	
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is	West Treet Ages	



	~ Z	Report No. \$23041007504001	
	EN 62368-1	4	
Clause	Requirement + Test	Result - Remark	Verdict
(C) _3	tested with an impulse test of 2,5 kV defined in 5.4.11;		
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;		4
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		
5.5.2.1	Norway	L 0 5	N/A
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added:		N/A
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.		4
5.6.1	Denmark		N/A
0.0.1	Add to the end of the subclause		14//
	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.		
	Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added:		4,
	 the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. 		.ct
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:		j
	1,25 mm ² to 1,5 mm ² in cross-sectional area.		
5.7.5	Denmark	0 Z	N/A
	To the end of the subclause the following is added:		
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		, t



*	EN 62368-1	EN 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden To the end of the subclause the following is added:		N/A
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	et suit suit	A. C.
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	Ailth Air Air	
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device	with with with	- 3
	providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	ALL ALL ALL	310
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	- Arith Ar	AT CIT
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	+ 7/02 4	
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	ATTENT ATTENT	
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	Ariest Ariest Aries	A STORT



*	EN 62368-1	4	
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.2	Denmark	A 200	N/A
	To the end of the subclause the following is added:		
`	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	at the state	4
3.3.1 and	Ireland and United Kingdom	. 4	N/A
3.4	The following is applicable:	. *	
riet .	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met		
G.4.2	Denmark	* * *	N/A
	To the end of the subclause the following is added:		
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	7. 4	- 4
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	ret wet	4
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.		A.C.
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.		
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	41	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	rich zich z	
	Justification: Heavy Current Regulations, Section 6c		*



	EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4			T
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is	at with white	4
4	replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard'		4
	plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	Net wet wet	
N.C.	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	A AIRT	4
G.7.1	Ireland		N/A
	To the first paragraph the following is added:		
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State		A. C.
0.7.0	which is equivalent to the relevant Irish Standard	(, , , , , , , , , , , , , , , , , , ,	NI/A
G.7.2	Ireland and United Kingdom	5 4	N/A
	To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	it with a	



	Nepolt No. 023041007304001			
*	EN 62368-1	<u> </u>	10	
Clause	Requirement + Test	Result - Remark	Verdict	
4	2 2	, 20 T		
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A	
10.5.2	Germany The following requirement applies:		N/A	
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.		STOT .	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.		<u> </u>	
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de		4	



	F '	IEC 62368-1	4	
1	Clause	Requirement + Test	Result - Remark	Verdict

4.1.2 TABL	E: List of critical com	ponents			P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
AC power adapter	Shenzhen Huajin Electronics Co., Ltd.	HJ-FC001K7-EU	Input: 100-240V~, 50/60Hz, 0.6A Output: DC 5.0V/3A, 9V/2A, 12V/1.5A,18W	EN IEC 62368- 1: 2020+ A11:2020	ATT Report No.: 22SLCS100 01 02611
Plastic Enclosure	SABIC INNOVATIVE PLASITCS B V	EXRL0246 (GG) DMX9455 (GG)	80°C, V-0, 1.5mm thickness Min.	UL 94	UL E45329
РСВ	Interchangeable	Interchangeable	V-0, 130°C	UL 796	ÚL 💮
Li-Polymer battery	Shenzhenshi jiuliyuan electronic technology co., LTD	S118	3.87V, 10600mAh 41.022Wh Rechargeable	IEC 62133-2: 2017	BUAA report no.: RSZBHST23 0419639
LCD module	Shenzhen Digital Technology Co.,Ltd	Y89452	6.517inch, TFT-LCD 74.16(Typ.)x164.46 (Typ.)x2.60	IEC/EN 62368- 1	Tested with appliance
Flashlight LED	JiangXi LatticePower Corporation Limited	FN-2016	3.4V, 350mA exempt group	IEC/EN 62471	CTI Report.: EED31H001 113
Speaker	AAC Acoustic Technologies Holdings Inc	S105-1217	Rated 1W, 8Ω ± 10% 94±2dB	EN 62368-1	Tested with appliance
Vibration motor	XinNing JX Electronics CO., LTD.	JXC0827- 03P01L8	DC 3.0V, rated Speed 12000±3000 rpm	EN 62368-1	Tested with appliance

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.



+	IEC 62368-1	Z, A	140
Clause	Requirement + Test	Result - Remark	Verdict

4.8.4, 4.8.5	IADLL. LI	thium coin/button cell batte	nos mediamon tests	N/A
The follow	ing mechanica	I tests are conducted in the sec	quence noted.)	
4.8.4.2	TABLE: St	ress Relief test	A 2	_
F	Part	Material	Oven Temperature (°C)	Comments
	- 4	- Z		-
4.8.4.3	TABLE: Ba	ttery replacement test	4 5 4	_
Battery pa	rt no			_
Battery Ins	stallation/withd	Irawal	Battery Installation/Removal Cycle	Comments
				-
			2	
			3	4 - 4
			4	
			5 5	
			6	4 - 4
			8	
			9	
			10	F
.8.4.4	TABLE: Dro	op test	<u> </u>	
mpact Are	ea	Drop Distance	Drop No.	Observations
150	- 4		1	
		A - V	2_	_
	- 4	<u> </u>	3	
1.8.4.5	TABLE: Imp	pact		_
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
	- 1			
1.8.4.6	TABLE: Cr	ush test	, OT	
Test	position	Surface tested	Crushing Force (N)	Duration for applied (s)
		<u>.</u>	Ø - 2	



F	IEC 62368-1	4	10
Clause	Requirement + Test	Result - Remark	Verdict

4.8.5 TABLE: Litt	4.8.5 TABLE: Lithium coin/button cell batteries mechanical test result								
Test position	Surface tested	Force (N)	Duration force applied (s)						
10 A	- 4	1 2 -	Ĭ-						
Supplementary informatio	n:		1400 2						

5.2	Table:	Classification of e	electrical energy	source	S	4		·		Р
5.2.2.2 -	- Steady Sta	ate Voltage and Cur	rent conditions							
	Location (e.g				Parameters					
No.	Supply Voltage	circuit designation)	Test conditions ((Vrms c		I (Apk or A	Arms)	Hz	ES Class
		٨-	Normal						/	
1	5-12V	Adaptor output (Fast charger)	Abnormal:	4		*	- (V)			ES1 (declared)
*		(, astona.go.)	Single fault:		<i>4</i> -		-		T	(
		4	Normal	Normal					<u> </u>	
2	Battery	Battery cell output	Abnormal: Single fault:				大 -			ES1 (declared)
		4			-					
5.2.2.3 -	Capacitan	ce Limits								
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parame Capacitance, nF			pk (V)		ES Class	
			Normal:		-0-		,	4		
		+ - K	Abnormal:							
	F 3		Single fault: SC/OC			4				
5.2.2.4 -	Single Pul	ses								
No.	No. Supply Location (e.g. circuit		Test conditions			Paran	neters			ES Class
INO.	Voltage	designation)	rest conditions	Duration (ms) Upk		k (V) lpk (mA)		nA)	LO Class	
4	•		Normal -				6		4	4
		<u> </u>	Abnormal			+	- 4		*	
×		Zi-Ci-	Single fault – SC/OC	¢	- 4				, ch	



	F	IEC 62368-1	4	140
١	Clause	Requirement + Test	Result - Remark	Verdict

5.2.2.5 -	5.2.2.5 - Repetitive Pulses											
Supply Location (e.g.			Parameters		F0.01							
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class					
	<i>-</i>	<u> </u>	Normal	- (0)	-2		1					
- 3			Abnormal	- 6			4					
		of Silver	Single fault – SC/OC		- At 3	<i>⇔</i> ₹	2, 2					

Test Conditions:

Normal –

Abnormal -

Supplementary information: SC=Short Circuit, OC=Open Circuit

The prospective touch voltage was measured when the flash device was ignited.

tion 1 Condition 2 Delow See below T (°C) .5 59.0	
	Allowed T _{max} (°C)
T (°C)	Allowed T _{max} (°C)
T (°C)	Allowed T _{max} (°C)
T (°C)	Allowed T _{max} (°C)
	T _{max} (°C)
.5 59.0	Def
	itel.
.8 60.5	130
.3 58.4	130
2.6 50.7	60
.4 49.0	Ref.T.8
0.0 40.0	
4	* /
.0 31.7	48
32.1	48
34.6	48
i.1	77
5.0 25.0	Ø 2
	.8 60.5 .3 58.4 .6 50.7 .4 49.0 .0 40.0 .0 31.7 .5 32.1 .8 34.6 .1



t Z		IEC	62368-1						
Clause	Requirement + Test Result - Rema								
Supplementary information: Condition 1: Charging an emplementary information:				at 4		.et	Ariet		
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class		
- 4	<u> </u>					L - <	-		
Supplementary information:	3			_4					

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics									
Penetration	(mm):		F 1/4 1/4	_					
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)						
-	, , , , , , , , , , , , , , , , , , ,		-*	4					
Supplement	ary information:	人							

5.4.1.10.3	5.4.1.10.3 TABLE: Ball pressure test of thermoplastics									
Allowed impression diameter (mm):				≤ 2 mm	4	4	_			
Object/Part	No./Material	Manufacturer/trad	demark	Test tem	perature (°C)	Impression dia	meter (mm)			
					- 4,	* -				
Supplement	ary information:		4		*					

5.4.2.2, 5.4.2.4 and	TABLE: Minimum (Clearance	es/Creepa	ge distance			<i>*</i>	N/A
	l) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz)#	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Basic/supple	mentary insulation		<u> </u>	3				
4			F		,		/ - -	
Reinforced in	sulation			4		4		
- *	3" 3"			- C-			/	/ - /

Supplementary information:

(#) Frequencies above and below 30 kHz

Note 2: BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation.

*: According to 5.4.1.8.1 i), the working voltage to determine minimun creepage distances was measured after the ignition of the lamp.



+	IEC 62368-1	Z, A	140
Clause	Requirement + Test	Result - Remark	Verdict

5.4.2.3	TABLE: Minimum Clearances di	ge N/A		
	Overvoltage Category (OV):	3	.L	· Ø 🗧
٨,	Pollution Degree:	4	70 4	
Clearance o	distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)
Basic / supp	plementary insulation		A 10	. 6
- *		01	4 4	
Reinforced	insulation	<i>(</i> * 4*)		
	1 10 4		AL 188	<u> </u>
Supplement	tary information:	*	70 6	7
1. BI:	basic insulation; SI: supplementary	insulation; DI: double	insulation; RI: reinfor	ced insulation;

5.4.2.4	TABLE: Clearances base	- 20	N/A				
Test voltage applied between:		Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.		Breakdown Yes / No		
_		<i>₩</i>					
Supplement	Supplementary information: Not used the alternative method to determine the clearances.						

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements		ents	it 41.00	N/A	
Distance the di at/of:	rough insulation	Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
- 7		/t- V	-3	4		
Supplement	ary information:	74, 5				

5.4.9	TABLE: Electric streng	th tests	4		N/A
Test voltage	e applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes/No
Functional:	4, 4,				4
3			-	X+	3 - 4
Basic/suppl	ementary:	4		* 3	
- ,	4 6		↓ - ✓		5
Reinforced:	46, 4	太			
_	, ct	4	Æ &	0- 20- 5	



f ,	IEC 62368-1	£ 1	40
Clause	Requirement + Test	Result - Remark	Verdict

		4		4	*	
5.5.2.2 TABLE: St	ored discharg	e on capacitor	s		N/A	
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification	
- 7	- *		Z	-		
Supplementary informat	ion:			\tag{\displaystart} \ \sqrt{\displaystart} \ \text{\displaystart} \ \text{\displaystart} \ \text{\displaystart} \ \text{\displaystart} \ \text{\displaystart} \ \text{\displaystart} \text{\displaystart} \qquad \qua		
X-capacitors installed fo	r testing are:	-				
☐ bleeding resistor rate	ting:					
☐ ICX:						
Notes:						
A. Test Location:						
Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth						
B. Operating condition abbreviations:						
N – Normal operating co	ondition (e.g., r	normal operation	n, or open fus	e); S –Single fault con	dition	
OC- Opened circuit						

		4		•		
5.6.6.2 TABLE: Resistance of protective conductors and terminations						N/A
	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Res	sistance (Ω)
	. C	, ,	*		*	
Suppleme	entary information:		4	٨ ٠		

5.7.2.2, TABLE: Earthed accessible conductive par 5.7.4	rt t	N/A
Supply voltage		_
Location	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
Measured to PE	A1 2	<u>N/A</u>
	2*	<u>N/A</u>
	3	N/A
	4	N/A
	5	<u>N/A</u>
	6	<u>N/A</u>
	8	N/A
Supplementary Information:		



+	IEC 62368-1	4	
Clause	Requirement + Test	Result - Remark	Verdict

Notes

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.
- N: Normal condition, R: Reverse condition.

6.2.2	Table: Electrical	P.O			
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
.0		Power (W) :	18		
Adaptor output	Type-C interface	V _A (V) :	9	·L	PS2 (declared)
'		I _A (A) :	2.0		
Battery	Normal condition	Power (W) :	\(\sigma \rightarrow\)	30.86	* 300
pack		V _A (V) :		3.91	PS2
output		I _A (A) :		7.9	1
Battery		Power (W) :	A - A	62.11	~L .
cell	Normal condition	V _A (V) :	4, -4	2.71	PS2
output	Condition	I _A (A) :		22.9	

Supplementary Information: SC: short circuit

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits.

6.2.3.1	2.3.1 Table: Determination of Potential Ignition Sources (Arcing PIS)					
Locati	on	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No	
		-4°	ک - الح		1	

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{rms}) is greater than 15.



	F '	IEC 62368-1	4	
1	Clause	Requirement + Test	Result - Remark	Verdict

6.2.3.2 Table: Dete	2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)					
Circuit Location (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No	
All internal circuit except the Type-C output circuit	Normal	- 4	62W	No	Yes	

Supplementary Information:

All internal circuits were considered as resistive PIS.

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High Pressure Lamp	7	2	N/A	
Description		Values	Energy Source Classification		
Lamp type .	<u> </u>	A 10 2	_		
Manufacture	er:	4	_		
Cat no	· · · · · · · · · · · · · · · · · · ·		_		
Pressure (co	old) (MPa)	4	MS_	大	
Pressure (o	perating) (MPa):		MS_	7,	
Operating ti	me (minutes)	4, 4	_		
Explosion m	nethod	* *	_		
Max particle	e length escaping enclosure (mm).:		MS_	.0	
Max particle	e length beyond 1 m (mm):		MS_		
Overall resu	ılt		4		
Supplement	tary information:	A		L ^	



	F '	IEC 62368-1	4	
1	Clause	Requirement + Test	Result - Remark	Verdict

B.2.5	TABLE: I	nput test						N/A
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	Ifuse (A)	Conditio	n/status
- *							7	
			4					*

Supplementary information:

¹⁾ Max volume, Max brightness, wifi and play a three vertical bar signal video.

B.3	TABLE: A	ΓABLE: Abnormal operating condition tests								
Ambient temperature (°C)							25.0			
Power sourc	e for EUT: M	1anufacture	r, model/ty	/pe, out	tput rating .:	See table	4.1.2 for deta	ils	_	
Component No.						0	bservation			
Speaker	SC	4.45Vd.c.	10mins	-	ACT -			and o are no opera	ker no voice ther function ormal tion. No g, no hazard.	
Supplementa	ary informati	on: SC = sh	ort circuit.	1	+ 0					

B.4	TABLE: Fault condition tests								Р
Ambient tempera	Ambient temperature (°C)								
Power source fo	r EUT: Manufac	turer, mode	l/type, o	utput ra	ting .:	See table	4.1.2 for de	tails	_
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current , (A)	T-couple	Tem (°C	•	Observatio n
Charging with en	npty battery							_	
Battery B- to P-	SC (Overcharge)	9Vdc	7h				4	Unit was operation damage hazard.	
C0335	SC	9Vdc	10min	4			A COL	Unit was operation damage hazard.	
C6105	SC	9Vdc	10min	S. C.	3	¢-		Unit Shu rapidly a recovera damage	and



	7 2					Report No.	3230410	07304001	
F 4		4	IE	C 62368	3-1			۸ـ	
Clause	Req	uirement +	Test			Resul	t - Remark		Verdict
4 .1		3			4				
R0304	SC	9Vdc	10min	, -	ALIENT MAN	-4.		Unit was operation damaged hazard.	, no
R6120	SC	9Vdc	10min			4		Unit was operation damaged hazard.	, no
Discharging with	full charged ba	ttery							
Battery B- to P- (battery)	SC (Over- discharge)	4.45Vdc	10min	4				Unit was operation damaged hazard.	, no
R3118	SC	4.45Vdc	10min	31/1	<u></u>		_	Unit was operation damaged hazard.	, no
R3123	SC	4.45Vdc	10min		4		<u></u>	Unit was operation damaged hazard.	, no
C3129	SC	4.45Vdc	10min s				F	Unit Shut rapidly an recoverab damage r	d
C3136	sc	4.45Vdc	10min s		 		* _ <	Unit Shut rapidly an recoverab damage r	d
Vibration Motor	Locked	3Vd.c	7h	4	<u>-</u>	0		No ignitio wrapping cheesecle	

Supplementary information:

- 1. SC Short Circuit; OC Open Circuit; OL- Overload;
- 2. No ignition during and after all tests;



	F '	IEC 62368-1	4	
1	Clause	Requirement + Test	Result - Remark	Verdict

Annex M TABLE: Batteries	P
The tests of Annex M are applicable only when appropriate battery data is not available	le
Is it possible to install the battery in a reverse polarity position? No	

	Non-red	chargeable	e batteries	Rechargeable batteries					
	Discharging		Un- intentional	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
1) Imax in normal condition	-		-	2664mA	4000mA	2957mA	4000mA	- *	1
2) Imax in fault U6101 Pin24-14	OF-	4		2871mA	4000mA		42	42	4
3) Imax in fault U3155 PinC6-D6		 		-4		3214mA	4000mA	<u>.</u>	13.0

Test results:		Verdict
- Chemical leaks	No	pass
- Explosion of the battery	No	pass
- Emission of flame or expulsion of molten metal	No	pass
- Electric strength tests of equipment after completion of tests	X	

Supplementary information:

-Information of battery pack: S118 (cell 486487)
■ Highest specified charging temperature: 45°C

- Lowest specified charging temperature: 0°C
- Maximum specified charging current: 4000mA
- Maximum specified charging voltage: 4.45VDC
- Maximum specified discharging current: 4000mA

Annex M.4	Tabl batt	secondary li	thium P				
Battery/C	ell	Took oon diking	Me	easurement	S	<u></u>	
No.		Test conditions	U (V)	I (A)	Temp (°C)	Observation	
1		Normal	4.45	2.664	52.6	No damaged, no hazard	
2		Abnormal (after drop test)	4.45	2.665	53.0	No damaged, no hazard.	
3	3 Single fault – U3155 PinC6-D6		4.45	3.214	53.2	No damaged, no hazard.	



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Clause	Requirement + Test	Result - Remark	Verdict

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
Li-ion battery	0 (ambient)	When the temperature of the battery body reaches 0°C,charge current: 0.508A	45 (ambient)	When the temperature of the battery body reaches 58°C,Charging current: 0A

Supplementary Information: The battery's ambient temperature did not exceed the highest and lowest specified charging temperature (60°C) under normal operating conditions, abnormal operating conditions or single fault conditions.

Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS) N/A							
Note: Measured	Note: Measured UOC (V) with all load circuits disconnected:							
Output Circuit	Components	U _{oc} (V)	I _{sc}	(A)	S (V	/A)		
			Meas.	Limit	Meas.	Limit		
Type-C output	7	5.19	1.4	8	5.9	100		
Type-C output	C0342 OC	4.98	1.4	8	6.3	100		
Supplementary Information:								

SC= short circuit; OC= open circuit

T.2, T.3, T.4, T.5			4	4,	
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top of enclosure	Plastic	<u>ئ</u> ر			
Bottom of enclosure	Plastic	1)	100	5	No damaged, no hazard
Side of enclosure Plas		1)	100	5	No damaged, no hazard
Supplementary information		<u>'</u>	4	* **	

1) See table 4.1.2

T.6, T.9	TABLE:	Impact tests			- 4		⊢ N/A
Part/Loca	ation	Material		Thickness (mm)	Vertical distar (mm)	ice	Observation
		*-			-Q -	1	
*					4,		*
Supplementary information:				7 4		لہ	



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١	Clause	Requirement + Test	Result - Remark	Verdict

T.7 TABLE:	Drop tests	1	- A	P
Part/Location Material		Thickness (mm)	Drop Height (mm)	Observation
Top of enclosure	glass	4	- *	
Bottom of enclosure	Plastic	1)	1000	No damage, no hazard.
Side of enclosure	Plastic	(1)	1000	No damage, no hazard.

Supplementary information:

1) See table 4.1.2

T.8 TA	A P				
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Plastic enclosur	e Plastic	1)	70	7	No damaged, no hazard.
Supplementary		4		et et	- 3,00

1) See table 4.1.2



Attachment 1 – Photo Documentation



Fig.1

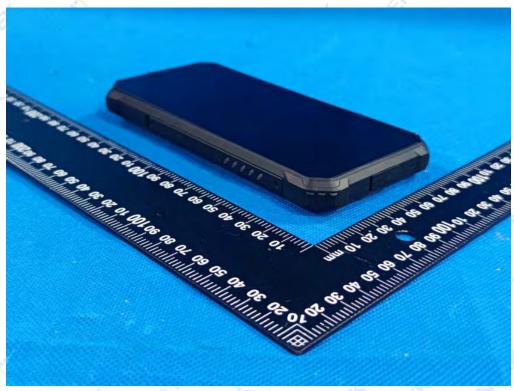


Fig.2





Fig.3



Fig.4





Fig.5

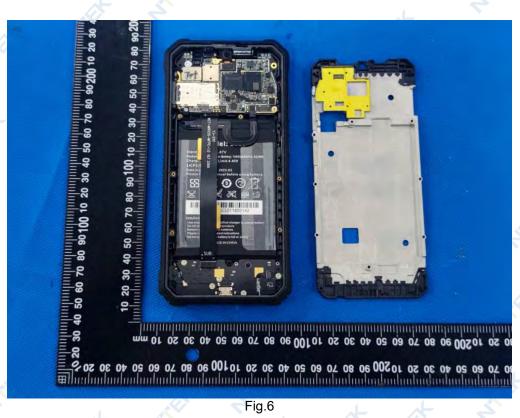


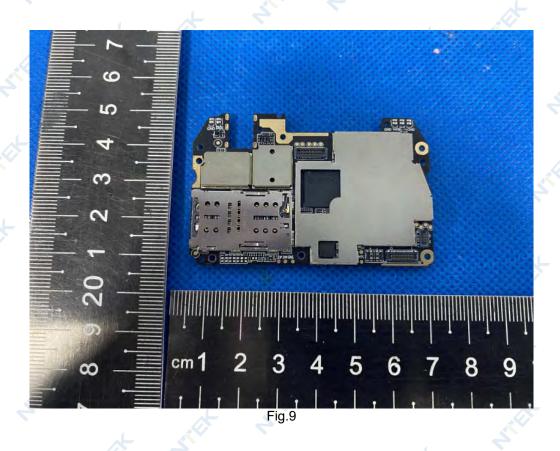


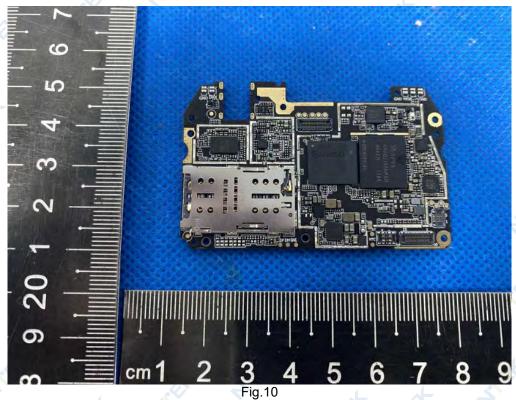


Fig.7

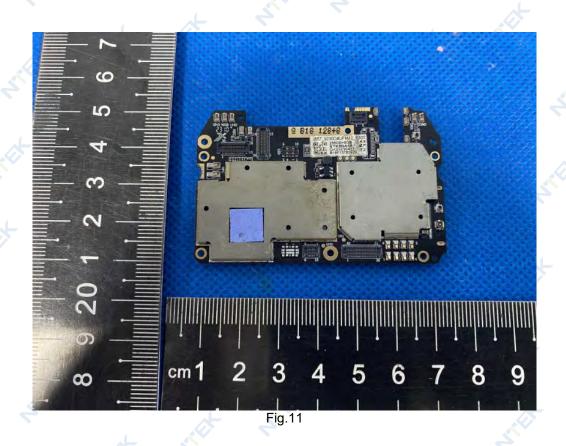












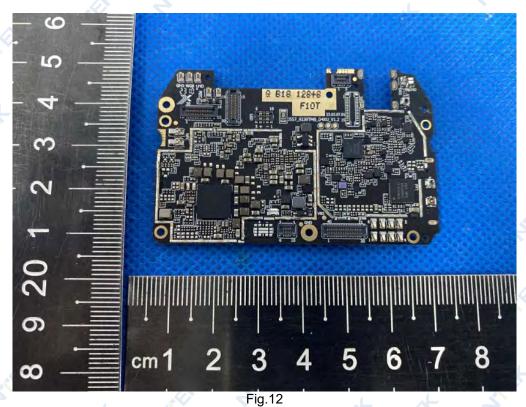






Fig.13



Fig.14 *****END OF REPORT*****